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ADMINISTRATIVE REMOVAL

ASA 212

0895

F

8/19/83

Subj: Meeting w. PSAPCA

A-80-40  
IV-E-17

From: C Gauding

To: NESHAAPS Docket

Attached is an outline summary of the meeting which took place on August 16, 1983, with the Puget Sound Air Pollution Control Authority (PSAPCA).

The purpose of the meeting was to clarify information from PSAPCA regarding SO<sub>2</sub> requirements applicable to ASARCO; and, further, to understand PSAPCA view of the ~~off~~ possible affect that a shift on arsenic emissions if ASARCO converted the plant to new smelting technology.

It was generally agreed that as long as the same ores are used, a change in smelting technology would not reduce the ~~sm~~ arsenic emission potential; however, it could eliminate some current sources of fugitive emissions and could also lead to a reduction in current stack emissions if the shift in smelting practice lead to the installation of higher efficiency particulate ~~control~~

AR 12.6.2 0005

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and SO<sub>2</sub> control systems.

cc: Bob Ajax (Please distribute to HQ Task Force Members)  
Micheli Coyle  
Laurie Kral

Attachment

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FOR THE DOCKET

Meeting with PSAPLA, ESED, RIO  
ASARCO - Alternative Technologies

8/16/83

Electric Furnace / INCO / Other Flash Smelting

- Use electric furnace to replace reverb
- Use INCO process to replace roaster / reverb combination - pollution benefit would be derived from acid plant that would be added to exhaust stream and associated controls, and also elimination of some fugitive sources ~~currently~~ between the roaster and reverberatory furnaces.

Other possibilities:

- Sulfidizing roaster
- "CARDO" top blown rotary converter (Ronskär)

#1 ESP control (reverb) - old Cottrell - 2nd ever built

- plate followed by tube
- 98% control may be generous
- key to control is solid H<sub>2</sub>O injection for resistivity control. Method of resistivity control is primitive - if transmissometer indicates ~~down~~ a problem, the ~~down~~ and crank the spigot ~~down~~ workers open the water feed faucet manually, with no attempt at precise method of determining quantity.

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- Arsenic production processes
  - COMINCO (Trail BC) 1938 patented hydrometallurgical process for As recovery from Au roasting sludges. May not want to share process in order to keep As prices and demand for their As up. They must get rid of sludge - leachate problem.
  - PES checking this out (LH)
  - No one aware of other production methods.
- Enforcement options:
  - As std may likely be a mix of emission stds and O&M, work practices, housekeeping measures. Consider PSAPLA hiring a full-time (or 2) inspector stationed at the plant paid for by ASARCO. Precedents for this exist (FDA, ADEP)
  - Operational Standard - air quality @ plant boundaries as measured by monitoring equipment can not exceed a certain level. PSAPLA would need explicit guidance on how to monitor, etc. (Similar to Appendix D requirements)
    - Ajax will look into this
  - Versaert - O&M requirements such as flue leak monitoring → response plan can be covered in the standard.
  - Ajax - next 3-4 weeks - prelim emission #'s | control tech to R10.